

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-698 REV. E OR LATER APPROVED REVISION
AND ICA-D412-698 REV. 5 OR LATER APPROVED REVISION

REF. TCCA STC: SH92-43
REF. FAA STC: SR01446NY
REF. EASA.IM.R.S.00709

Field experience has shown that the forward D3199-1 brackets that are part of the D412-698-011/-012/-017 Cabin Door Roller Kits and forward D3675-1 brackets that are part of the D412-698-031/-032/-033 Cabin Door Roller Kits may wear prematurely if the aircraft is flown a significant amount of time with the sliding doors open. Dart has developed the D412-698-027/-028 kits that includes a longer D3199-3/-4 bracket for installation in the forward 2 positions of the D412-698-011/-012/-017 kits to reduce wear on these forward brackets on aircraft equipped with aluminum doors. Likewise, Dart has developed the D412-698-037/-038 kits that includes a longer D3675-5/-6 bracket for installation in the forward 2 positions of the D412-698-031/-032/-033 kits to reduce wear on these forward brackets on aircraft equipped with composite doors.

The D412-698-027/-028/-037/-038 kits may be installed as follows:

- 1) Remove the sliding door from the aircraft per Section 52.1 of ICA-D412-698
- 2) Remove the forward 2x D3199-1 or D3675-1 brackets as applicable.
- 3) Install the D3199-3/-4 or D3675-5/-6 bracket as applicable in lieu of the removed -1 brackets.
Refer to Figure 1 Sheet 2 (aluminum doors) or Figure 2 Sheet 3 (composite doors).
- 4) Torque hardware per ICA-D412-698.
- 5) Re-install sliding door on aircraft per Section 52.2/52.3 of ICA-D412-698 as applicable.
- 6) Make entry in technical records of aircraft indicating that DSI 9484 has been completed.

PARTS LIST

| QTY -027 | QTY. -028 | QTY. -037 | QTY. -038 | PART NUMBER | DESCRIPTION |
|-------------|--------------|--------------|--------------|--------------|-----------------------------------|
| X | | | | D412-698-027 | BRACKET KIT, LH (ALUMINUM DOORS) |
| | X | | | D412-698-028 | BRACKET KIT, RH (ALUMINUM DOORS) |
| | | X | | D412-698-037 | BRACKET KIT, LH (COMPOSITE DOORS) |
| | | | X | D412-698-038 | BRACKET KIT, RH (COMPOSITE DOORS) |
| 1 | | | | D3199-3 | FORWARD BRACKET, LH |
| | 1 | | | D3199-4 | FORWARD BRACKET, RH |
| | | 1 | | D3675-5 | FORWARD BRACKET, LH |
| | | | 1 | D3675-6 | FORWARD BRACKET, RH |

WEIGHT AND BALANCE

| Installation | Weight | Lateral | | Longitudinal | | Applicability |
|-----------------------------|---------------------|---------------------|--------------------------|--------------------|-------------------------|--|
| | | Arm | Moment | Arm | Moment | |
| D412-698-027 Bracket Kit | 0.33 lb 0.15 kg | -48.0 in -1.22 m | -15.8 in-lb -0.18 m-k | 102.3 in 2.60 m | 33.76 in-lb 0.39 m-k | Aircraft Equipped with P/N 205-032-669-XXX Aluminum Doors |
| D412-698-028 Bracket Kit | 0.33 lbs 0.15 kg | +48.0 +1.22 m | +15.8 in-lb +0.18 m-k | 102.3 in 2.60 m | 33.76 in-lb 0.39 m-k | |
| D412-698-037 Bracket Kit | 0.53 lb 0.24 kg | -48.0 in -1.22 m | -25.4 in-lb -0.29 m-k | 102.3 in 2.60 m | 54.22 in-lb 0.62 m-k | Aircraft Equipped with P/N 412-030-300-XXX Composite Doors |
| D412-698-038 Bracket Kit | 0.53 lb 0.24 kg | +48.0 in +1.22 m | +25.4 in-lb +0.29 m-k | 102.3 in 2.60 m | 54.22 in-lb 0.62 m-k | |

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: D. Shepherd
D. SHEPHERD (DE # 02)

DATE: 10.12.17
CERT. NO.: SH92-43
ISSUE NO.: 5

| | | |
|---|--|------------------------|
| B | ADDED -037/-038 KIT FOR COMPOSITE DOORS; UPDATED TITLE ACCORDINGLY. | 10.12.17 |
| A | NEW ISSUE | 09.10.16 |
| REV. | DESCRIPTION | DATE |
| DESIGN | | |
| DRAWN | | |
| CHECKED | | |
| MFG. APPR. | N/A | |
| APPROVED | | |
| DE APPR. | | |
| DATE | 10.12.17 | |
| DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | | |
| DRAWING NO. DSI 9484 | | REV. B SHEET 1 OF 3 |
| TITLE D412-698-027/-028/-037/-038 Kits | | SCALE NTS |
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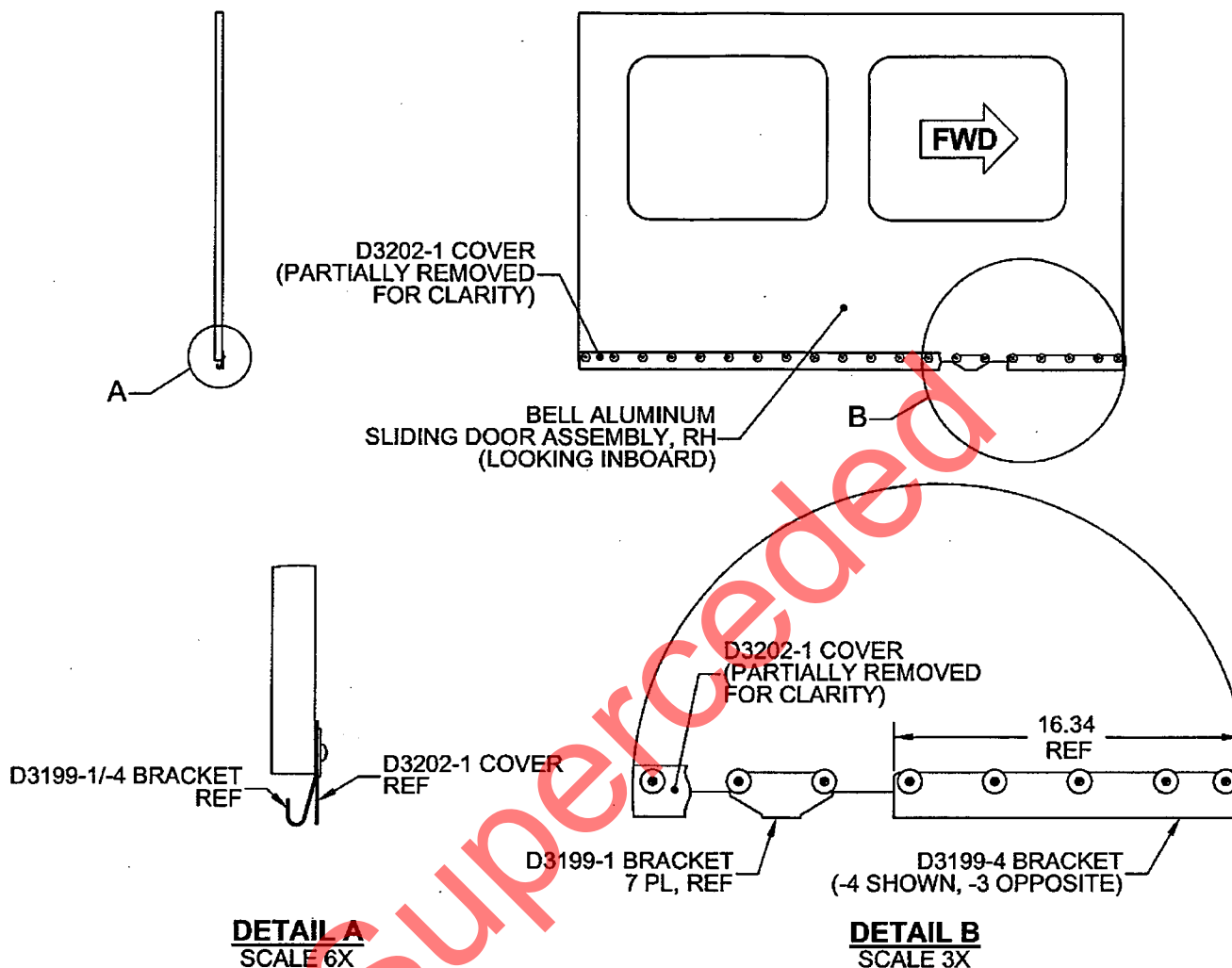






FIGURE 1: D3199-3/-4 BRACKET INSTALLATION ON ALUMINUM DOORS
(-4 SHOWN, -3 OPPOSITE)

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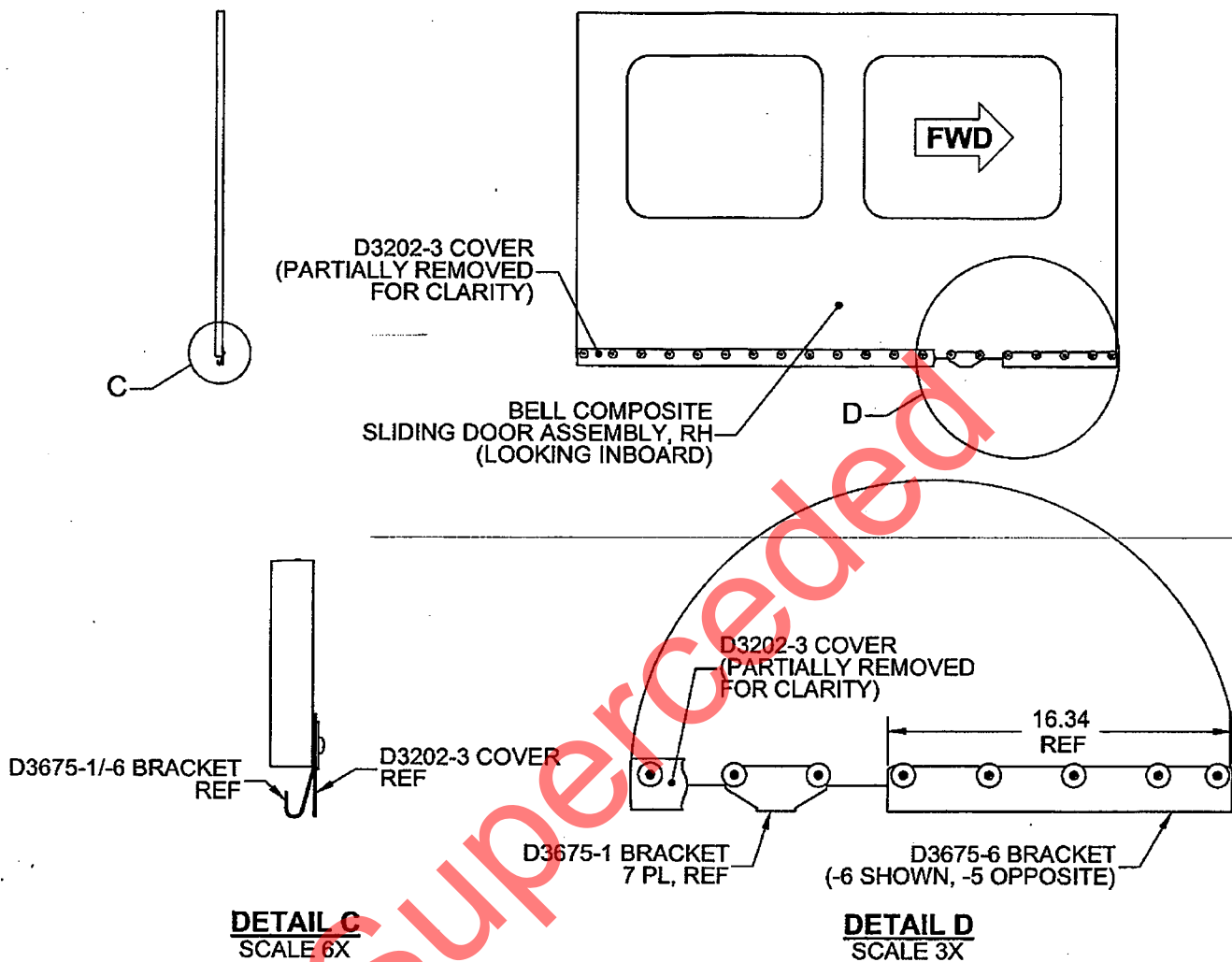


FIGURE 2: D3675-5/-6 BRACKET INSTALLATION ON COMPOSITE DOORS
(-6 SHOWN, -5 OPPOSITE)

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| MFG. APPR. | N/A | DSI 9484 | SHEET 3 OF 3 |
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